Access DB# 59125

# SEARCH REQUEST FORM

# Scientific and Technical Information Center

Requester's Full Name:  Art Unit: 3340 Phone Numb	أراب والمجارب	Examiner # : (5C	48 Date: 1 28 02
Requester's Full Name: Phone Number	per 30원 = 11승급	Serial Numb	er:07/458, 235
Art Unit: <u>3 3 40 200</u> Phone Numb Mail Box and Bldg/Room Location: <u>41</u> 0	22 A-1 Resi	ults Format Preferre	d (circle): PAPER DISK E-MAIL
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If more than one search is submitted	d, please prioriti	ze searches in ord	er or need. **********************
****		· C 11 no mossi	ble the cubiect matter to be searched.
Include the elected species or structures, keyword utility of the invention. Define any terms that known. Please attach a copy of the cover sheet	may have a special m , pertinent claims, and	eaning. Give example: d abstract.	s or relevant citations, authors, etc, if
Title of Invention:			
Inventors (please provide full names):			
Myomoto (France)			
D. D.			
Earliest Priority Filing Date:  *For Sequence Searches Only* Please include al	u	 (parent, child, divisiona	l, or issued patent numbers) along with the
*For Sequence Searches Only* Please include al appropriate serial number.	и рентени тургтитом	(parent, entre,	
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STAFF USE ONLY	Type of Search		ns and cost mass app
Searcher: School (Cont.)	NA Sequence (#)	SIN	

To: Andres Kashnikow, SPRE TC3700, CP2,

Case Number: # 09/458,235

Searched by: Terry Solomon, Technical Information Specialist, EIC 3700

Litigation search on: US 5694937

Databases searched: Lexis (lexis.com); PlusPat and Inpadoc (Questel/Orbit)

Results:

Lexis- Patent Litigation- Reissue
Patent Cases- None
Patent Journals- None

PlusPat and Inpadoc- see attached

If you have any questions regarding these results, contact John Sims (308-4836).

1/28/02 3:22 PM

## 1 of 1 DOCUMENT

5,694,937

## GET 1st DRAWING SHEET OF 10

Dec. 9, 1997

# Ultrasound diagnostic apparatus and method

REISSUE: Reissue Application filed Dec. 9, 1999 (O.G. Feb. 15, 2000) Ex. Gp.: 3737; Re. S.N. 09/458,235

#### 1/1 PLUSPAT - @QUESTEL-ORBIT - image

PN - US5694937 A 19971209 [US5694937]

TI - (A) Ultrasound diagnostic apparatus and method

PA - (A) TOKYO SHIBAURA ELECTRIC CO (JP)

IN - (A) KAMIYAMA NAOHISA (JP)

**AP** - US59388696 19960130 [1996US-0593886]

PR - JP1387495 19950131 [1995JP-0013874] JP8977395 19950414 [1995JP-0089773] JP14352595 19950609 [1995JP-0143525]

IC - (A) A61B-008/00

EC - A61B-008/00D A61B-008/06F G01S-007/52S G01S-007/52S4 G01S-015/89D

PCL - ORIGINAL (O): 600443000; CROSS-REFERENCE (X): 600446000 600453000 600458000

DT - Basic

US5255683; US5410516
 Christy K. Holland, et al., "In Vitro Detection of Cavitation Induced by a Diagnostic Ultrasound System" IEEE Transactions On Ultrasonics, Ferroelectrics, and Frequency Control, vol. 39, No. 1, Jan. 1992.

STG - (A) United States patent

AB According to an ultrasound diagnostic apparatus of the present invention, a cross section of an examining human body having bubbles implanted as ultrasonic shadowing agent is scanned by an ultrasound so as to obtain an echo signal. Image data is repeatedly generated based on the echo signal. Then, image data is displayed as a motion image. Power of the ultrasound to be transmitted is changed from first power to second power, which is stronger than first power. The ultrasound of first power breaks a first amount of bubbles. The ultrasound of second power, which is stronger than first power, breaks a second amount of bubbles, which is larger than the first amount of bubbles. Though the image generated by use of first power is unclear, the amount of breakage of bubbles can be extremely retrained. Since the image is used to examine the state of the bubble flow to the region of interest, unclearness can be allowed. When the bubbles are fully introduced to the region of interest, first power is changed to second power. Second power is stronger than first power. Therefore, the image obtained by second power is clearer than image obtained by first power, and is fit for a high accurate diagnosis of the state of the blood stream.

1/1 LGST - ©LEGSTAT

PN - US 5694937 [US5694937]

**AP** - US 593886/96 19960130 [1996US-0593886]

DT - US-P

**ACT** - 19960130 US/AE-A

**APPLICATION DATA (PATENT)** 

US 593886/96 19960130 [1996US-0593886]

19960130 US/AS02

ASSIGNMENT OF ASSIGNOR'S INTEREST

KABUSHIKI KAISHA TOSHIBA 72 HORIKAWA-CHO, SAIWAI-KU KAWASAKI-SHI, JAPAN \* KAMIYAMA, NAOHISA : 19960118

19971209 US/A

**PATENT** 

20000215 US/RF

REISSUE APPLICATION FILED

19991209

**UP** - 2000-07

1/1 CRXX - ©CLAIMS/RRX

PN - 5,694,937 A 19971209 [US5694937]

PA - Toshiba Corp JP

ACT - 19991209 REISSUE REQUESTED

Issue Date of O.G.: 20000215

Reissue Request Number: 09/458235

Examination Group responsible for Reissue process: 3737

1/1 PAST - ©PAST

**AN** - 200007-001075

PN - 5694937 A [US5694937]

**OG** - 2000-02-15

**ACT - REISSUE APPLICATION FILED** 

#### 1/5 INPADOC - @INPADOC

PN - JP 3023290 B2 20000321 [JP3023290]

IN - KAMYAMA NAOHISA

PA - TOKYO SHIBAURA ELECTRIC CO

**AP** - JP 89773/95-A 19950414 [1995JP-0089773]

PR - JP 89773/95-A 19950414 [1995JP-0089773]

IC - A61B-008/00

#### 2/5 INPADOC - ©INPADOC

PN - JP 8196537 A2 19960806 [JP08196537]

TI - ULTRASONIC DIAGNOSTIC SYSTEM

IN - KAMIYAMA NAOHISA

PA - TOKYO SHIBAURA ELECTRIC CO

AP - JP 13874/95-A 19950131 [1995JP-0013874]

PR - JP 13874/95-A 19950131 [1995JP-0013874]

IC - A61B-008/06; G01S-015/50

#### 3/5 INPADOC - @INPADOC

PN - JP 8280674 A2 19961029 [JP08280674]

TI - ULTRASONIC DIAGNOSTIC APPARATUS

IN - KAMIYAMA NAOHISA

PA - TOKYO SHIBAURA ELECTRIC CO

**AP** - JP 89773/95-A 19950414 [1995JP-0089773]

PR - JP 89773/95-A 19950414 [1995JP-0089773]

IC - A61B-008/00

## 4/5 INPADOC - @INPADOC

PN - JP 8336527 A2 19961224 [JP08336527]

TI - ULTRASONIC DIAGNOSTIC SYSTEM

IN - KAMIYAMA NAOHISA

PA - TOKYO SHIBAURA ELECTRIC CO

**AP** - JP 143525/95-A 19950609 [1995JP-0143525]

PR - JP 143525/95-A 19950609 [1995JP-0143525]

IC - A61B-008/00

#### 5/5 INPADOC - @INPADOC

PN - US 5694937 A 19971209 [US5694937]

TI - ULTRASOUND DIAGNOSTIC APPARATUS AND METHOD

IN - KAMIYAMA NAOHISA [JP]

PA - TOKYO SHIBAURA ELECTRIC CO [JP]

**AP** - US 593886/96-A 19960130 [1996US-0593886]

PR - JP 13874/95-A 19950131 [1995JP-0013874] JP 89773/95-A 19950414 [1995JP-0089773]

JP 143525/95-A 19950609 [1995JP-0143525]

IC - A61B-008/00

#### 1/1 LEGALI - ©LEGSTAT

PN - US 5694937 [US5694937]

**AP** - US 593886/96 19960130 [1996US-0593886]

DT - US-P

ACTE - 19960130 US/AE-A

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19971209 US/A

**PATENT** 

20000215 US/RF

REISSUE APPLICATION FILED

19991209

**UP** - 2000-07